**SAIP2019** 



Contribution ID: 14

Type: Poster Presentation

## Structural and optical studies of tin iron chromium nano oxides

Thursday, 11 July 2019 15:00 (2 hours)

In the present study, we have synthesized Sn0.2Fe0.9Cr0.9O3 nano oxides. Single phase corundum -like structure and nanophase structure of the as-synthesized sample were confirmed by X-ray diffraction (XRD) and by transmission electron microscope (TEM). The results show that the produced powders have grain size of approximately 32 nm. Using the result of the UV-Vis spectrometer, we were able to determine the energy band gaps of 3.1 and 5.2 eV, when nanoparticles diluted in iron standard and in deionised water respectively.

Apply to be<br> considered for a student <br> &nbsp; award (Yes / No)?

No

## Level for award<br>&nbsp;(Hons, MSc, <br>> &nbsp; PhD, N/A)?

N/A

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Session Classification: Poster Session 2

Track Classification: Track A - Physics of Condensed Matter and Materials